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BREEDING BIRD FORAYS IN TENNESSEE'S UPPER CUMBERLAND REGION: PART V (STATUS OF THE REGIONAL AVIFAUNA)

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This article is the fifth in a series (see Stedman and LeGrand 2016a; Stedman and LeGrand 2016b; Stedman and LeGrand 2017; and Stedman 2017) summarizing results of a breeding bird foray project undertaken from 2008 to 2016 in the Tennessee portion of the Upper Cumberland Region, a group of 16 counties. These counties change in elevation from west to east, being lower in the western counties lying within or partly within the Central Basin and adjacent Eastern Highland Rim and higher in the eastern counties lying on or partly on the Cumberland Plateau. In all, 127 species of breeding birds were documented in these counties during the forays, representing 74.7% of the 170 species documented in Tennessee during the breeding bird atlas project (Nicholson 1997).

METHODS AND RESULTS

The scope, methods, and protocol for this survey are described in detail in the first publication of this series (see Stedman and LeGrand 2016a). Changes in distribution and abundance of species from the years of the atlas project to the years of the foray project are derived from differences in the number of the blocks in which species were recorded during the atlas and during the foray. The Tennessee portion of the Upper Cumberland Region contains 651 atlas/foray blocks. During the Tennessee Breeding Bird Atlas project the major focus of field work took place in 109 priority blocks within the 16 counties, but varying amounts of additional work was also performed in 239 non-priority blocks.

During this foray almost all of the blocks in the 16 counties were the focus of field work. Birds were recorded by county occurrence for this study, and 70 blocks encompass parts of

more than one county. I treated each portion of a single block that occurred in a different county as an individual block. Therefore, the total number of blocks when portions of blocks were further segregated by county is 724. Of 724 blocks, I excluded 7 because they had no coverage during the foray. As a result, the total number of blocks with some coverage is 717. Comparison of total blocks in which a species was recorded during the atlas with total blocks in which it was recorded during the foray must take into account the disparity between the atlas coverage based solely on blocks and the foray coverage which segregates individual blocks by county. The overall foray statistics for the 16 counties in the Tennessee portion of the Upper Cumberland Region are presented in Appendix 1; distribution and abundance data form the bulk of the information included.

DISCUSSION

Noteworthy temporal changes in the breeding avifauna of the 16 counties in the Tennessee portion of the Upper Cumberland Region from the period (1986-1991) of the Breeding Bird Atlas project (Nicholson 1997) to the period (2008-2016) of the UCR forays are the major focus here, but some attention is also focused on changes apparent in the regional ranges of some species relating to the differing elevations of the counties in the region.

Among species with positive regional population changes, only those with more than a two-fold increase in the number of blocks in which they were recorded from the period of the atlas to the period of the foray will be discussed here. Among species with negative population changes, this restriction is not a concern. In most cases the species that are discussed have long been known to be undergoing noteworthy positive or negative population changes at the state, regional, or even continental scale, making the foray project a recent corroboratory survey for the populations of most of these species in the counties surveyed.

Species with Positive Regional Population Changes

The giant form of Canada Geese (scientific names are provided in Appendix 1) formerly bred in Tennessee but was extirpated by the end of the 19th Century. Efforts to reintroduce a breeding population in Tennessee began in the mid-20th Century (see http://tnwatchablewildlife.org). During the atlas project this goose was detected in 24 (6.9%) of 348 blocks within the 16 counties of the Upper Cumberland Region; they were much more common at that time in the Nashville area and in the Ridge and Valley part of Tennessee (Nicholson 1997). During foray fieldwork they were recorded in 174 (24.3%) of 717 blocks, numerically a seven-fold increase from the period of the atlas, as well as a considerable percentage increase. This increase in distribution and presumably of abundance of resident Canada Geese within the region is consistent with its long-term increase elsewhere in the state and in the southeastern United States.

Mallards were recorded in 11 (3.2%) blocks of the region during the atlas project (Nicholson 1997). During the foray project they were recorded in 79 (11%) blocks.

Wild Turkeys were recorded in 20 (5.7%) blocks of the region during the atlas project (Nicholson 1997). During the foray project they were recorded in 208 (29%) blocks.

Great Blue Herons were detected in 40 (11.5%) blocks of the region during the atlas project

and were not recorded as a probable or confirmed breeder in any of them (Nicholson 1997). During the foray project they were recorded in 189 (26.4%) blocks and were confirmed as a breeder in five counties.

Ospreys were recorded in four (1.1%) blocks of the region during the atlas project, always as a possible breeder (Nicholson 1997). They were recorded in 11 (1.5%) blocks during the foray, including multiple registrations as a confirmed breeder in Jackson and Smith counties.

Cooper's Hawks were recorded in 23 (6.6%) blocks of the region during the atlas project (Nicholson 1997). They were recorded in 69 (9.6%) blocks during the foray project, indicating a moderate increase in its distribution and abundance in the region since the early 1990s.

Blue-headed Vireos were recorded in 22 (6.3%) regional blocks during the atlas project (Nicholson 1997). They were recorded in 121 (16.9%) blocks during the foray project, a noteworthy positive change. Besides the apparent increase in the abundance of this vireo within the region during the interval between the atlas project and the foray project, some changes in its distribution are worth pointing out. There were no observations of Blue-headed Vireo in Fentress or Overton counties during the atlas, but there were nine blocks with observations in each of those counties during the foray, suggesting a westward expansion took place during the period between the two surveys. Furthermore, there were no blocks in Clay County during the atlas work where observations of this vireo took place, but there were two blocks with observations during the foray, suggesting an increase in the species' presence in that county (or possible colonization of low elevation areas west of the plateau).

Warbling Vireos were recorded in six (1.7%) blocks of the region during the atlas project (Nicholson 1997). They were recorded in 35 (4.9%) blocks during the foray project, indicating a probable increase in its distribution and abundance since the time of the atlas. However, this species' song is quite unobtrusive, causing it to be overlooked more than the songs of species with conspicuous vocalizations. Additionally, atlas coverage in Macon and Smith counties was somewhat less intense than it was in most of the other 14 counties in the Tennessee part of the Region; 24 of the 35 blocks harboring this vireo during the foray were in those two counties, possibly accounting for most of the increase in the number of blocks in which it was detected from the time of the atlas to the time of the foray.

Tree Swallows were recorded in two (0.5%) blocks of the region during the atlas project (Nicholson 1997). During the foray project they were recorded in 288 (40.2%) blocks (Figure 1), attesting to a noteworthy positive change in its breeding distribution and abundance within the Region.

Cliff Swallows were recorded in nine (2.6%) blocks of the region during the atlas project (Nicholson 1997). During the foray project they were recorded in 89 (12.4%) blocks. These blocks were predominately along the Cumberland River and its tributaries.

House Wrens were recorded in 14 (4.0%) blocks of the region during the atlas project (Nicholson 1997). During the foray project they were recorded in 162 (23.0%) blocks, indicating a noteworthy change in the distribution and abundance of this species, with much of the change occurring in the vicinity of the many small municipalities scattered throughout the region.

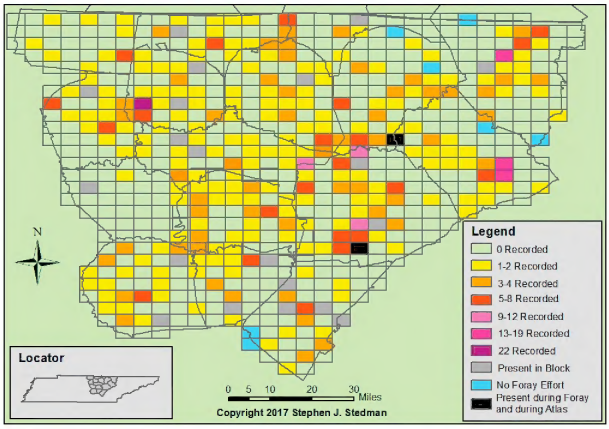

Figure 1. Distribution and abundance of Tree Swallow during forays conducted 2008 to 2016 in the Tennessee part of the Upper Cumberland Region.

Prothonotary Warblers were noted in six (1.7%) regional blocks involving four counties during the atlas project (Nicholson 1997). They were recorded in 49 (6.8%) blocks involving ten counties during the foray project.

Dickcissels were recorded in seven (2.0%) regional blocks during the atlas project (Nicholson 1997), while during the foray project they were recorded in 70 (9.8%) blocks.

Species with Negative Regional Population Changes

Ruffed Grouse were recorded in 22 (6.3%) blocks located in the Tennessee portion of the Upper Cumberland Region, all in the eastern counties of the region, during the atlas project (Nicholson 1997). They were recorded in seven (1%) blocks during the foray project, indicating a considerable reduction in their presence in the region from the period of the former project to the period of the latter.

Sharp-shinned Hawks were noted in ten (2.9%) blocks during the atlas project (Nicholson 1997). They were reported in one (0.13%) regional block during the foray project, attesting to a moderately sharp decline in its presence as a breeder in the region.

Loggerhead Shrikes were recorded in 40 (11.5%) blocks during the atlas project (Nicholson 1997). They were recorded in 15 (2.1%) blocks during the foray project, a considerable reduction in its distribution and presumably in its abundance during the interval between these survey events. North American Breeding Bird Survey data point to a noteworthy negative trend in the continental population of this species (Ziolkowski et al. 2010).

Bewick's Wrens were recorded in one (0.28%) regional block in DeKalb County in the extreme western part of the region during the atlas project (Nicholson 1997); they were not recorded during the foray project and should probably be regarded as being extirpated in the region.

Golden-winged Warblers were recorded in 21 (6.0%) regional blocks during the atlas project (Nicholson 1997). They were recorded in one (0.13%) regional block in Cumberland

County during the foray project, indicating that the regional population suffered a severe decline from the time of the atlas to the time of the foray. This finding is consistent with the findings of most other studies focused on this warbler. It is noteworthy that there were no foray blocks in Scott County where this warbler was recorded (although two blocks with good habitat in the southern tip of the county were not surveyed due to lack of access); during the atlas project there were 11 blocks where this warbler was recorded in that county.

Species that Potentially Colonized the Region between the Atlas Project and the Foray Project

Northern Harriers were not recorded in the Tennessee portion of the region or ostensibly in Tennessee during the atlas project, but were observed in two blocks during the foray project, each in Van Buren County where harrier nesting habitat (grass and shrubs growing on reclaimed strip mines) is present.

Eurasian Collared-Doves were unrecorded in the Region and in Tennessee during the atlas project. They were recorded in 30 blocks during the foray project, having been first recorded in the Region in Overton County in 1995 (SJS pers. data), i. e., several years after the end of the atlas project.

Scissor-tailed Flycatchers were not recorded in the region during the atlas project. During the foray project they were recorded in nine blocks, including seven in Bledsoe County, indicating that its initial colonization of that regional county largely or entirely took place between the periods of these surveys.

Henslow's Sparrows were not recorded in the region or in Tennessee during the atlas project, but they were recorded in 12 regional blocks during the foray. This species has been persistent in its appearance as a rare, if sporadic, breeder in the region since the mid-2000s. Its unobtrusive song may have been overlooked more often prior to the 21st Century than after as observers became more alert to its possible presence.

Savannah Sparrows were not recorded in the region during the atlas project, but they were recorded in at least eight blocks during the foray, suggesting that colonization of the region was initiated after the time of the atlas.

A Species with an Uncertain Regional Population Change

During the period of 1965-2010, Breeding Bird Survey results for Cerulean Warblers exhibited a steep downward population trend at the continental level (Ziolkowski et al. 2010), considered to be the most severe downward trend among all North American warbler species. However, this species was recorded in 40 (11.5%) regional blocks during the atlas project (Nicholson 1997), and it was recorded in 95 (13.2%) blocks during the foray project, results that do not indicate a decline in the species' distribution or abundance within the Region. No unknown populations were discovered during foray field work, but the extent of some populated areas was enhanced, particularly in western DeKalb County, southeastern Jackson County, southern Macon County, western Putnam County, and northeastern Smith County. Based on atlas and foray results, it may be that the regional population for this species of concern remained stable or even increased from the time of the atlas to the time of the foray.

Information about Maps Relating to the Foray Project

A collection of about 2000 maps displaying foray results within the Tennessee counties of the Upper Cumberland Region, as well as about 1000 maps displaying foray results within ten Kentucky counties of that region, may be accessed at the *Atlas of the Breeding Birds of the Upper Cumberland Region* via this URL:

http://www.birdsandbutterfliesoftheuppercumberlandregion.com/Foray--UCR--SpeciesSummary.htm

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I dedicate this work to the memory of Barbara H. Stedman.

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Appendix 1. Summary of Foray Data Collected 2008-2016 in the Tennessee Portion of the Upper Cumberland Region. Species names and sequence follow the 58th Supplement (2017) to the American Ornithological Society Check-list of North and Middle American Birds.

Common Name (Transients [21 species] in italics)	Scientific Name	Total Counties in which Recorded of 16 Possible	Number of Blocks in which Recorded in 16 Counties 1	Total Individuals during Counting Period in 16 Counties 2	Range for Average Number of Breeding Individuals per Hour in 16 Counties 3	Comments about Species Limited by Elevation 4
Black-bellied Whistling-Duck	*Dendrocygna autumnalis*	1	1	8	NA	
Canada Goose	*Branta canadensis*	16	174	2089	0.2-4.7	
Wood Duck	*Aix sponsa*	16	153	351	0.1-0.5	
Mallard	*Anas platyrhynchos*	15	79	232	0.0-0.6	
Northern Bobwhite	*Colinus virginianus*	16	285	649	0.0-1.0	
Ruffed Grouse	*Bonasa umbellus*	3	7	4	0-0.0	HI EL (decreasing)
Wild Turkey	*Meleagris gallopavo*	16	208	334	0.0-0.7	
Pied-billed Grebe	*Podilymbus podiceps*	1	1	0	0-0.0	
Rock Pigeon	*Columba livia*	16	158	705	0.2-0.9	
Eurasian Collared-Dove	*Streptopelia decaocto*	9	30	72	0-0.2	
Mourning Dove	*Zenaida macroura*	16	643	6276	1.9-8.1	
Yellow-billed Cuckoo	*Coccyzus americanus*	16	367	582	0.1-0.9	
Common Nighthawk *	*Chordeiles minor*	11	19	21	0-1.5	
Chuck-will's-widow *	*Antrostomus carolinensis*	16	109	228	0.4-5.6	
Eastern Whip-poor-will *	*Antrostomus vociferus*	15	143	508	0-16.5	
Chimney Swift	*Chaetura pelagica*	16	380	1005	0.3-1.1	
Ruby-throated Hummingbird	*Archilochus colubris*	16	227	306	0.1-0.5	
Semipalmated Plover	*Charadrius semipalmatus*	1	1	1	NA	
Killdeer	*Charadrius vociferus*	16	346	815	0.3-1.3	
Semipalmated Sand./Peep Sp.	*Caladris pusilla/Caladris sp.*	3	4	48	NA	
American Woodcock *	*Scolapax minor*	7	23	14	0-1.4	
Spotted Sandpiper	*Actitis macularius*	4	7	11	NA	
Solitary Sandpiper	*Tringa solitaria*	2	2	2	NA	
Common Tern	*Sterna hirundo*	1	1	0	NA	
Common Loon	*Gavia immer*	1	1	2	NA	

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Double-crested Cormorant	*Phalacrocorax auritus*	6	11	29	NA	
Great Blue Heron	*Ardea herodias*	16	189	273	0.0-0.6	
Great Egret	*Ardea alba*	2	4	26	NA	
Little Blue Heron	*Egretta cerulea*	1	1	0	NA	
Green Heron	*Butorides virescens*	16	174	213	0.1-0.5	
Black-crowned Night-Heron	*Nycticorax nycticorax*	2	2	2	0-0.0	
Yellow-crowned Night-Heron	*Nyctanassa violacea*	1	1	2	0-0.0	
Black Vulture	*Coragyps atratus*	16	182	768	0.0-3.6	
Turkey Vulture	*Cathrates aura*	16	465	1706	0.6-2.2	
Osprey	*Pandion haliaetus*	6	11	8	0-0.0	
Mississippi Kite	*Ictinia mississippiensis*	2	2	2	NA	
Bald Eagle	*Haliaeetus leucocephalus*	4	6	4	0-0.0	
Northern Harrier	*Circus hudsonius*	1	2	2	0-0.0	HI EL (rare)
Sharp-shinned Hawk	*Accipiter striatus*	1	1	1	0-0.0	HI EL (rare and decreasing)
Cooper's Hawk	*Accipiter cooperi*	14	69	57	0-0.1	
Red-shouldered Hawk	*Buteo lineatus*	16	254	299	0.0-0.6	
Broad-winged Hawk	*Buteo platypterus*	16	190	201	0.1-0.3	
Red-tailed Hawk	*Buteo jamaicensis*	16	214	245	0.1-0.4	
Golden Eagle	*Aquila chrysaetos*	1	1	1	NA	
Barn Owl	*Tyto alba*	4	5	4	0-0.0	
Eastern Screech- Owl *	*Megascops asio*	12	61	71	0-4.1	
Great Horned Owl	*Bubo virginianus*	11	39	47	0-2.8	
Barred Owl *	*Strix varia*	16	95	92	0-4.6	
Belted Kingfisher	*Megaceryle alcyon*	16	92	97	0.0-0.2	
Red-headed Woodpecker	*Melanerpes erythrocephalus*	16	220	366	0.1-0.6	
Red-bellied Woodpecker	*Melanerpes carolinus*	16	583	1792	0.8-2.2	
Downy Woodpecker	*Picoides pubescens*	16	368	521	0.1-0.7	

Common Name (Transients [21 species] in italics)	Scientific Name	Total Counties in which Recorded of 16 Possible	Number of Blocks in which Recorded in 16 Counties 1	Total Individuals during Counting Period in 16 Counties 2	Range for Average Number of Breeding Individuals per Hour in 16 Counties 3	Comments about Species Limited by Elevation 4
Hairy Woodpecker	*Picoides villosus*	16	189	214	0.1-0.4	
Northern Flicker	*Colaptes auratus*	16	334	550	0.1-0.8	
Pileated Woodpecker	*Dryocopus pileatus*	16	381	642	0.1-0.9	
American Kestrel	*Falco sparverius*	16	238	406	0.0-0.8	
Olive-sided Flycatcher	*Contopus cooperi*	1	1	1	NA	
Eastern Wood-Pewee	*Contopus virens*	16	613	2327	1.2-3.3	
Acadian Flycatcher	*Empidonax virescens*	16	422	1616	0.2-2.7	
Willow Flycatcher	*Empidonax traillii*	8	21	32	0-0.1	
Least Flycatcher	*Empidonax minimus*	2	2	2	NA	
Eastern Phoebe	*Sayornis phoebe*	16	591	1904	0.7-2.9	
Great Crested Flycatcher	*Myiarchus crinitus*	16	475	991	0.2-1.3	
Eastern Kingbird	*Tyrannus tyrannus*	16	529	1830	0.4-2.5	
Scissor-tailed Flycatcher	*Tyrannus forficatus*	3	9	8	0-0.1	
Loggerhead Shrike	*Lanius ludovicianus*	8	15	20	0-0.1	
White-eyed Vireo	*Vireo griseus*	16	624	3487	1.1-5.7	
Yellow-throated Vireo	*Vireo flavifrons*	16	521	1098	0.3-1.4	
Blue-headed Vireo	*Vireo solitarius*	11	121	246	0-0.7	HI EL (increasing)
Warbling Vireo	*Vireo gilvus*	9	35	50	0-0.3	LO EL
Red-eyed Vireo	*Vireo olivaceus*	16	692	8988	2.0-10.7	
Blue Jay	*Cyanocitta cristata*	16	631	2646	1.1-2.9	
American Crow	*Corvus brachyrhynchos*	16	684	7044	2.7-10.0	
Horned Lark	*Eremophila alpestris*	10	18	20	0-0.0	
Purple Martin	*Progne subis*	16	334	2829	0.6-4.9	
Tree Swallow	*Tachycineta bicolor*	16	288	693	0.0-0.7	
Northern Rough-winged Swallow	*Stelgidopteryx serripennis*	16	307	850	0.3-1.1	
Cliff Swallow	*Petrochelidon pyrrhonota*	13	89	2410	0-6.2	

Common Name (Transients [21 species] in italics)	Scientific Name	Total Counties in which Recorded of 16 Possible	Number of Blocks in which Recorded in 16 Counties 1	Total Individuals during Counting Period in 16 Counties 2	Range for Average Number of Breeding Individuals per Hour in 16 Counties 3	Comments about Species Limited by Elevation 4
Barn Swallow	*Hirundo rustica*	16	594	6071	1.7-13.2	
Carolina Chickadee	*Poecile carolinensis*	16	648	2697	1.0-3.8	
Tufted Titmouse	*Baeolophus bicolor*	16	686	4403	2.4-4.9	
White-breasted Nuthatch	*Sitta caroliensis*	16	449	925	0.3-1.1	
Brown-headed Nuthatch	*Sitta pusilla*	5	7	6	0-0.0	
House Wren	*Troglodytes aedon*	16	162	586	0.0-2.0	
Carolina Wren	*Thryothorus ludovicianus*	16	669	5173	2.4-5.7	
Blue-gray Gnatcatcher	*Polioptila caerulea*	16	613	2556	0.9-3.2	
Eastern Bluebird	*Sialia sialus*	16	625	4280	1.1-5.4	
Veery	*Catharus fuscescens*	1	1	0	0-0.0	VH EL (rare)
Swainson's Thrush	*Catharus ustulatus*	2	3	3	NA	
Wood Thrush	*Hylocichla mustelina*	16	502	1856	0.4-2.4	
American Robin	*Turdus migratorius*	16	575	5230	2.0-8.2	
Gray Catbird	*Dumetella carolinensis*	16	256	466	0.1-0.7	
Brown Thrasher	*Toxostoma rufum*	16	546	1588	0.6-2.2	
Northern Mockingbird	*Mimus polyglottos*	16	561	4016	0.5-6.6	
European Starling	*Sturnus vulgaris*	16	547	18350	3.7-28.5	
Cedar Waxwing	*Bombycilla cedrorum*	16	286	1004	0.2-1.5	
House Sparrow	*Passer domesticus*	16	417	2648	0.6-5.6	
House Finch	*Haemorhous mexicanus*	16	253	974	0.1-2.9	
American Goldfinch	*Spinus tristis*	16	598	2417	1.1-3.6	
Eastern Towhee	*Piliplo erythrophthalmus*	16	573	3698	1.2-5.6	
Chipping Sparrow	*Spizella passerina*	16	662	4821	2.6-5.5	
Field Sparrow	*Spizella pusilla*	16	623	4164	1.0-6.3	
Savannah Sparrow	*Passerculus sandwichensis*	5	8	11	0-0.0	
Grasshopper Sparrow	*Ammodramus savannarum*	16	169	369	0.0-0.6	
Henslow's Sparrow	*Ammodramus henslowii*	6	12	17	0-0.1	

Common Name (Transients [21 species] in italics)	Scientific Name	Total Counties in which Recorded of 16 Possible	Number of Blocks in which Recorded in 16 Counties 1	Total Individuals during Counting Period in 16 Counties 2	Range for Average Number of Breeding Individuals per Hour in 16 Counties 3	Comments about Species Limited by Elevation 4
Song Sparrow	*Melospiza melodia*	16	582	4030	1.4-4.6	
Yellow-breasted Chat	*Icteria virens*	16	649	3351	1.7-4.4	
Eastern Meadowlark	*Sturnella magna*	16	526	3769	0.4-5.1	
Orchard Oriole	*Icterus spurius*	16	442	1669	0.5-2.7	
Baltimore Oriole	*Icterus galbula*	6	18	22	0-0.1	
Red-winged Blackbird	*Agelaius phoeniceus*	16	578	6115	2.3-12.5	
Brown-headed Cowbird	*Molothrus ater*	16	581	2753	0.8-5.1	
Common Grackle	*Quiscalus quiscula*	16	450	3327	0.3-6.1	
Ovenbird	*Seiurus aurocapilla*	16	401	1895	0.0-3.8	
Worm-eating Warbler	*Helmitheros vermivorum*	15	174	333	0-1.0	
Louisiana Waterthrush	*Parkesia moticilla*	16	250	410	0.0-0.7	
Northern Waterthrush	*Parkesia noveboracensis*	1	1	1	NA	
Golden-winged Warbler	*Vermivora chrysoptera*	1	1	0	0-0.0	HI EL (rare and decreasing)
Blue-winged Warbler	*Vermivora cyanoptera*	10	84	152	0-0.5	
"Brewster's" Warbler		1	1	1	NA	
Black-and-white Warbler	*Mniotilta varia*	15	271	630	0-1.6	
Prothonotary Warbler	*Protonotaria citrea*	10	49	63	0-0.3	
Swainson's Warbler	*Limnothlypis swainsonii*	4	16	24	0-0.1	HI EL
Tennessee Warbler	*Oreothlypis peregrina*	1	1	0	NA	
Connecticut Warbler	*Oporornis agilis*	2	2	2	NA	
Mourning Warbler	*Geothlypis philadelphia*	2	3	2	NA	
Kentucky Warbler	*Geothlypis formosa*	16	432	1148	0.4-2.1	
Common Yellowthroat	*Geothlypis trichas*	16	640	4256	1.5-5.2	
Hooded Warbler	*Setophaga citrina*	16	492	2078	0.1-4.3	
American Redstart	*Setophaga ruticilla*	15	87	283	0-0.5	
Cerulean Warbler	*Setophaga cerulea*	13	98	247	0-0.6	
Northern Parula	*Setophaga americana*	16	441	1374	0.2-2.7	

Common Name (Transients [21 species] in italics)	Scientific Name	Total Counties in which Recorded of 16 Possible	Number of Blocks in which Recorded in 16 Counties 1	Total Individuals during Counting Period in 16 Counties 2	Range for Average Number of Breeding Individuals per Hour in 16 Counties 3	Comments about Species Limited by Elevation 4
Magnolia Warbler	*Setophaga magnolia*	1	1	1	NA	
Blackburnian Warbler	*Setophaga fusca*	2--Only 1 County as Breeder	2	"2, including 1 transient"	0-0.0	VH EL (rare)
Yellow Warbler	*Setophaga petichia*	13	87	145	0-0.4	
Chestnut-sided Warbler	*Setophaga pensylvanica*	4	12	17	0-0.1	HI EL
Blackpoll Warbler	*Setophaga striata*	1	1	0	NA	
Black-throated Blue Warbler	*Setophaga caerulescens*	2--Only 1 County as Breeder	2	1	0-0.0	VH EL (rare)
Pine Warbler	*Setophaga pinus*	15	229	431	0-1.0	
Yellow-throated Warbler	*Setophaga dominica*	16	523	1413	0.2-3.1	
Prairie Warbler	*Setophaga discolor*	16	524	1914	0.6-3.6	
Black-throated Green Warbler	*Setophaga virens*	9	81	247	0-0.9	HI EL
Summer Tanager	*Piranga rubra*	16	398	1128	0.0-1.8	LO EL
Scarlet Tanager	*Piranga olivacea*	16	478	1496	0.1-1.7	
Northern Cardinal	*Cardinalis cardinalis*	16	674	6677	3.0-8.5	
Rose-breasted Grosbeak	*Pheucticus ludovicianus*	2	3	3	0-0.0	VH EL (rare)
Blue Grosbeak	*Passerina caerulea*	16	531	2007	0.8-2.5	
Indigo Bunting	*Passerina cyanea*	16	701	11871	4.7-15.1	
Dickcissel	*Spiza americana*	11	74	264	0-0.7	
Total				205852 Individuals		

* Nocturnal species

"1--Based on total blocks in each county in Tennessee (717; 724 minus 7 not surveyed) part of UCR, rather than on total blocks (651) in that region; this discrepancy occurs because about 70 blocks occur in 2 or 3 counties."

2--Results from all counting periods and night counting periods

3--Results from 2-hour and 3-hour counting periods except for nocturnal species.

4--LO EL (primarily found in Central Basin and on Highland Rims); HI EL (primarily found on Cumberland Plateau); VH EL (primarily found above 2500 ft onplateau and in Cumberland Mountain).

ROUNDTABLE NOTE

SHOREBIRD FALLOUT IN LAKE COUNTY - A 6.4 km (four miles) stretch of southern Lake County, from Mud Lake to Robinson Bayou Road, produced a fallout of shorebirds from 11 – 13 May 2017. This area consisted of mostly agricultural fields, which due to flooding of the Mississippi and Obion Rivers and heavy local rainfall, had more than 400 ha (1,000 acres) covered in shallow water and exposed mud flats. Twenty species found on 11 May, highlighted by a Whimbrel (*Numenius phaeopus*). Marbled Godwit (*Limosa fedoa*) and Wilson's Phalarope (*Phalaropus tricolor*) were added on 12 May. Two Hudsonian Godwits (*Limosa haemastica*) were observed on 13 May which brought the cumulative species list to 26, an extraordinary number for such a small area of temporary habitat in a three day period in Tennessee. Significant numbers included 28 Black-bellied Plovers (*Pluvialis squatarola*), 10 Ruddy Turnstones (*Arenaria interpres*) and 125 Dunlin (*Calidris alpine)*. On 23 May, an American Avocet (*Recurvirostra americana*) raised the total species count to 27. Observers were Mark Greene, Mike Todd, Bob Foehring, Timothy Jones and Dick Preston.

Dick D. Preston, Munford, TN

BOOK REVIEW: PILGRIMS OF THE AIR

Pilgrims of the Air. John Wilson Foster, first published March 2013, Notting Hill Editions, 240 pages.

This is a book that tells the now familiar story of the Passenger Pigeon. Its uniqueness lies in its method of presenting a comprehensive and detailed compilation of sightings, history, philosophy, mythology and folklore. The contents were gleaned from the widest possible range of sources including accounts by colonists, Native Americans, and early naturalists all the way down to those who later searched in vain for a disappearing species.

These observations and perceptions surrounding the pigeons and other wildlife would appeal to anyone who delights in reading historic diaries. Readers will find fascinating the quaint, old-fashioned word choices used in numerous firsthand descriptions of flocks that "eclipsed the sun."

A measure of the wide range of science of the day can be noted in beliefs by some that birds hibernate under water while others understood more advanced concepts such as the mechanism responsible "crop milk" production.

As expected, the author includes those graphic accounts of wholesale slaughter made possible by the rapid expansion of telegraphs and railroads.

The book concludes with passionate laments of ornithologists caught off guard amid the hopelessness of an extinction that came swiftly and left the world with a "meagerness of knowledge."

Pilgrims of the Air is the kind of book that, although small in size, is dense with detailed description and is likely to be read slowly and savored.

Gaynell Corley Perry, Memphis, TN

Born and educated in Belfast, John Wilson Foster received a doctorate in English from the University of Oregon. Foster spent his teaching and research career at the University of British Columbia and has been an amateur ornithologist for several decades.

The Migrant 88(3): 119-120, 2017

REPORT OF THE TENNESSEE BIRD RECORDS COMMITTEE

Ruben Stoll, Secretary
Pleasantville, TN 37033

The Tennessee Bird Records Committee (TBRC) wishes to thank all who have taken the time to document and submit their rare bird records. Many of the latest reports have been accompanied by photographic documentation which is especially valuable to the work of the committee. It is the job of the TBRC to maintain the Official List of the Birds of Tennessee and to ensure that sightings of rare species are documented accurately and adequately for posterity. This list, along with the by-laws of the committee and information on submitting documentation, may be viewed in the TBRC section of the TOS website.

The year 2016 saw many new state records with five species added to the State list, including Lesser Goldfinch in January in Lake County (documented in the previous TBRC report), Hooded Oriole in June in Giles County, Brown Booby in October in Humphreys County, Bohemian Waxwing in November in Knox County, and Northern Wheatear in November in Loudon County. The Hooded Oriole was the second of this species photographed in Tennessee, but the first record was rejected due to concerns about provenance. In light of this second record, the TBRC has voted to re-review this prior sighting.

Members of the TBRC are Phillip Casteel, Ron Hoff, Daniel Jacobson, Chris Sloan, Terry Witt, and Ruben Stoll, Secretary

Say's Phoebe (*Sayornis saya*)

Written documentation and photograph submitted by Mark Greene, 219 South Hall Griffin Road, Obion County, 19 December 2013. Accepted 6 - 0.

Common Redpoll (*Carduelis flammea*)

Written documentation and photograph at a feeder submitted by Rick Shipkowski, Clarksville, Montgomery County, 10 – 21 January 2016. Accepted 6 - 0.

Townsend's Solitaire (*Myadestes townsendi)*

Written documentation and photograph submitted by Mark Greene, Gibson County Lake, Gibson County, 4 – 6 February 2016. Accepted 6 - 0.

Hooded Oriole (*Icterus cucullatus*)

Written documentation and photograph at feeder of 1 adult male submitted by David Gross, TN-245, north central Giles County, 2 – 4 June 2016. This is a first state record. Accepted 6 - 0.

Painted Bunting (*Passerina ciris)*

Written documentation and photograph of 1 adult male submitted by David Arnold, J. Percy Priest WMA Field Trial Area, Rutherford County, 5 June 2016, documentation submitted by Steve Zipperer. Accepted 6 - 0.

Pomarine Jaeger (*Stercorarius pomarinus*)

Written documentation and photograph of a sub-adult submitted by Ruben Stoll, Paris Landing State Park, Henry County, 30 July - 2 August 2016. Accepted 6 - 0.

Sabine's Gull (*Xema sabini*)

Written documentation and photograph of an immature submitted by Ruben Stoll, Big Sandy Mudflats in Big Sandy, Henry County, 5 October 2016. Accepted 6 – 0.

Brown Booby (*Sula leucogaster*)

Written documentation and photograph of an immature submitted by Ruben Stoll, Duck River Unit, Tennessee NWR, Humphreys County, 20 October 2016. This is a first state record. Accepted 6 – 0.

Snow Bunting (*Plectrophenax nivalis*)

Written documentation and photograph submitted by Joe Meyer, Viking Mountain Road, Greene County, 5 November 2016. Accepted 6 – 0.

Bohemian Waxwing (*Bombycilla garrulous*)

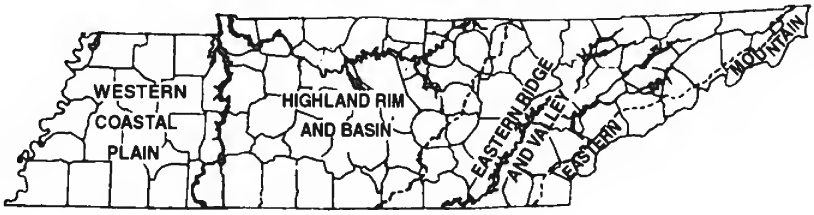
Written documentation and photograph submitted by Colin D. Sumrall, Sequoyah Park, Knox County, 11 – 20 November 2016. This is a first state record. Accepted 6 – 0.

Northern Wheatear (*Oenanthe oenanthe)*

Written documentation and photograph submitted by Tony King, Windy Hill Farm, Loudon County, 13 – 20 November 2016. This is a first state record. Accepted 6 – 0.

THE SPRING SEASON

Richard L. Knight, Editor



1 March - 31 May 2017

Following a remarkably mild winter, spring continued this trend, especially through March and April. With the mild temperatures came several reports of new early arrival dates for various migrants at the local, regional, or state level. Rainfall varied from slightly below average in West Tennessee to well above average in the eastern end of the state.

Migrants displayed a strong showing through much of West and Middle Tennessee this spring. Especially notable were waterfowl in the Mississippi River border counties and warblers at Radnor Lake in Nashville. In contrast, many birders in East Tennessee commented that migration was spotty and weak. Highlights were almost too numerous to list. Of particular note were Whimbrel, Hudsonian Godwit, Ruff, Neotropic Cormorant, Reddish Egret, Cave Swallow, and Great-tailed Grackle in West Tennessee; Cinnamon Teal, Purple Gallinule, Glaucous Gull, Anhinga, and Yellow-headed Blackbird in the mid-state; and Black-bellied Whistling-Duck, Limpkin, Swallow-tailed Kite, and Harris's Sparrow in the East Tennessee.

Standard Abbreviations

ad - adult
Co - County
Cr - Creek
ers - earliest reported sighting
et al. – and others
im - immature
L - Lake
lrs - latest reported sighting
max - maximum count
m.ob. - many observers
Mtn - Mountain
NWR - National Wildlife Refuge
R - River
SNA - State Natural Area
SP - State Park
WMA - Wildlife Management Area
yg - young

WESTERN COASTAL PLAIN REGION - - While March (3° above normal) and April (4° above normal) continued the recent trend of higher temperatures, May was 1 degree below historic norms. Rainfall across the region was a cumulative 3 inches below normal.

Thirty species of shorebirds were reported, including Whimbrel, Marbled Godwit, Hudsonian Godwit, and Ruff. Three Fulvous Whistling-Ducks in Lake County, a Reddish Egret in Lake County (a third state record, pending acceptance by the Tennessee Bird Records Committee), single Cave Swallows in Dyer and Lake Counties (same individual?), and a Great-tailed Grackle in Dyer County were exceptional finds. A Painted Bunting was a first for Henry County, rounding out an exciting season.

Waterfowl - Rail: **Black-bellied Whistling-Duck**: 14 Mar (11) Ensley (BZ), ers, up to 171 there by 29 Mar (BZ). **Fulvous Whistling-Duck**: 12 May (3) Tumbleweed WMA (MAG). **Black Scoter**: 7 Mar (9) Pickwick L (RS, AT). **Hooded Merganser**: 25 May (hen with 6 yg) Mud L (DDP); 25 May (hen with 7 yg) Black Bayou, Lake Co (MAG). **Ruddy Duck**: 22 May (1) Robinson Bayou Rd (MAG), lrs. **Eared Grebe**: 7 Apr (1, breeding plumage) Reelfoot L, Lake Co (MAG). **White-winged Dove**: 10 May (1) Dyersburg, Dyer Co (Kathy Sellars, photo). **Black-billed Cuckoo**: 11 May (1) Crockett Co (MCT); 17 May (1) Lake Co (MAG). **Common Nighthawk**: 20 Apr (1) Collierville, Shelby Co (John Walko), ers. **Ruby-throated Hummingbird**: 23 Mar (1) Munford (DDP), ers. **King Rail**: 22 May (1) Mud L (MAG, photo). **Virginia Rail**: 20 May (1) Tumbleweed WMA (MCT).

Shorebirds: **Black-necked Stilt**: 20 Mar (2) Ensley (BZ), ers; 24 Mar (1) Lake Co (MAG); 22 May (84) Mud L (MAG); 25 May (102) Robinson Bayou Rd (DDP). **American Avocet**: 23-25 May (1) Robinson Bayou Rd (MAG, m.ob.); 25-29 May (1) Ensley (BF, m.ob.). **Black-bellied Plover**: 5 May (4) Hwy 104, Dyer Co (MAG); 11-12 May (3-26) Robinson Bayou Rd (MCT, DDP, MAG); 12 May (3) Great River Rd, Dyer Co (DDP); 29 May (1) Ensley (RH). **American Golden-Plover**: 7 Mar (1) Tenn NWR - Busseltown Unit, Decatur Co (RS, VS), ers; 12 May (1) Lake Co (MAG), lrs. **Upland Sandpiper**: 11 Apr (3) Lake Co (MAG); 1 May (1) Shelby Forest (DDP); 11-12 May (1) Lake Co (MCT, MAG); 12 May (1) Dyer Co (DDP). **Whimbrel**: 11 May (1) Reelfoot Hickory Ridge Rd, Lake Co (MAG, photo). **Hudsonian Godwit**: 10 Apr (1) Ensley (Virginia Reynolds); 13 May (2) Robinson Bayou Rd (BF). **Marbled Godwit**: 12 May (1) Mud L (DDP). **Ruddy Turnstone**: 12 May (10) Lake Co (MAG); 12 May (8) Dyer Co (DDP); 25 May (1) Robinson Bayou Rd (DDP). **Ruff**: 11 Apr (1 female) Buckelew Slough (MAG). **Stilt Sandpiper**: 10 Apr (1) Ensley (RS, VS), ers; 13 May (25) Robinson Bayou Rd (MAG), max; 31 May (1) Mud L (DDP), lrs. **Dunlin**: 5 Apr (1) Ensley (MM), ers; 11-25 May (max 125 on 22 May) Robinson Bayou Rd (MCT, MAG, DDP). **Baird's Sandpiper**: 24 Mar (1) Lake Co (MAG); 10 / 15 May (3) Ensley (BF / BZ); 11-13 / 25 May (1-2) Lake Co (MCT, DDP). **White-rumped Sandpiper**: 27 Apr - 29 May (1-12) Ensley (DDP, MCT, BF, RH); 11 May (2) Mud L (MAG); 11-25 May (14-44) Robinson Bayou Rd (MCT, MAG, DDP); 12 May (35) Tumbleweed WMA (MAG); 13 May (15) Lake Co (MAG); 16 May (3) Britton Ford (Robert Wheat); 17 May (42) Buckelew Slough (MAG). **Buff-breasted Sandpiper**: 12 May (2) Robinson Bayou Rd (DDP), rare in spring. **Western Sandpiper**: 27 Apr (1) Ensley (DDP), ers. **Short-billed Dowitcher**: 27

Apr (6) Ensley (DDP); 11-12 May (8-12) Lake Co (MCT, MAG). **Long-billed Dowitcher**: 24 Mar (1) Lake Co (MAG); 24 Mar - 3 May (2-31) Ensley (BF, m.ob.); 6 / 11 Apr (13 / 59) Buckelew Slough (MAG); 24 Apr (7) Phillipy Pits, Lake Co (DDP); 11-12 May (2-36) Lake Co (MCT, DDP). **Spotted Sandpiper**: 29 Mar (1) Ensley (BZ), ers. **Solitary Sandpiper**: 14 Mar (1) Ensley (BZ), ers. **Willet**: 5 May (1) Ensley (BF). **Wilson's Phalarope**: 27 Apr - 13 May (1-7) Ensley (BF, DDP, RH); 12 May (1) Mud L (DDP, MAG); 23 May (2) Robinson Bayou Rd (MAG).

Gull - Falcon: **Lesser Black-backed Gull**: 6 Apr (1) Paris Landing SP, Henry Co (DJS), lrs. **Caspian Tern**: 4 Apr (1) Hatchie NWR (MM), ers; 11 Apr (51) Pickwick L (RS), max. **Black Tern**: 10 May (2) Gibson Co L (MAG). **Common Tern**: 10 May (1) Gibson Co L (MAG); 25 May (1) Robinson Bayou Rd (DDP). **Red-throated Loon**: 7 Mar (1 ad) Pickwick L (RS, AT). **Neotropic Cormorant**: 30 May (1 im) Mud L (MAG, photo). **Anhinga**: 5 Apr (1) Tipton Co (DDP, MM); 10 Apr (2) Ensley (RS, VS); 25 Apr (2) Macedonia Bottoms, Gibson Co (MAG); 3-8 May (1-2) Hatchie NWR (MCT, m.ob.); 9 May (1) John Porter Conservation Area, Fayette Co (RH); 11-12 May (1) N Fork Forked Deer R, Dyer Co (MCT / MAG); 25 May (1) Tennemo Levee, Dyer Co (DDP); 29 May (1) Great River Rd, Lake Co (Glen Criswell). **American White Pelican**: 11 Apr (1500+) Pickwick L (RS); 26 Apr (62) Ensley (DDP et al.); 27 May (122) Robinson Bayou Rd (DDP). **American Bittern**: 11 Apr (1) Hooper Marsh, Dyer Co (MAG); 19 Apr (1) Reelfoot NWR, Obion Co (Hap Chambers). **Least Bittern**: 5 May (1) Hatchie NWR (RS, VS); 11 May (1) Hooper Marsh, Dyer Co (MAG). **Snowy Egret**: 21 Apr (1) Dyer Co (MAG), ers. **Tricolored Heron**: 23 May (1) Robinson Bayou Rd (MAG, photo). **REDDISH EGRET**: 12 May (1 ad, dark morph) Mud L (DDP), 1st record in West Tenn and 3rd state record. **Black-crowned Night-Heron**: 12 May (1) Mud L (MAG). **White Ibis**: 23 May (1 ad) Mud L (MAG, photo), rare in spring. **White-faced Ibis**: 19 May (1) Robinson Bayou Rd (MAG, photo). **Mississippi Kite**: 8 Apr (1) Shelby Farms, Shelby Co (Martha Waldron), ers; 21 May (3) Paris, Henry Co (Robert Wheat); 30 May (70 over one field) Obion Co (MAG), max. **Bald Eagle**: 6 Mar (1 ad) Cordova, Shelby Co (Chris Jones). **Barn Owl**: 18 Mar (1) Cordova, Shelby Co (fide Martha Waldron). **Merlin**: 9 Mar (1) Gibson Co (MAG). **Peregrine Falcon**: 4 Apr / 7 May (1) Ensley (DDP, RH / Virginia Reynolds); 11 May (1) Mississippi R, Lake Co (MAG); 17 May (1) Buckelew Slough (MAG).

Flycatcher - Thrush: **Olive-sided Flycatcher**: 11 May (1) Tiptonville, Lake Co (MAG); 14 May (1) Wolf R Greenway, Shelby Co (Jim Varner, photo); 18 May (1) Shelby Forest (BF). **Yellow-bellied Flycatcher**: 22 May (1) Tennemo Levee, Dyer Co (MAG); 30 May (1) Reelfoot NWR, Lake Co (MAG). **Acadian Flycatcher**: 16 Apr (1) Hatchie NWR (MCT), ers. **Willow Flycatcher**: 11 May (1) Dyer Co (MAG), ers. **Western Kingbird**: 3 / 29 May (15 / 7, pair nest building) President's Island, Shelby Co (MCT / RH); 10 May (1) TVA Lake, Shelby Co (BZ); 11 May (2) N Treatment Plant, Shelby Co (Douglas Logan); 29 May (pair, nest building) Ensley (RH, Hal Mitchell). **Scissor-tailed Flycatcher**: 15 Apr (2) Agricenter, Shelby Co (Andrea Cowart). **White-eyed Vireo**: 27 Mar (1) Shelby Co (RH), ers. **Bell's Vireo**: 25 May (1) Reelfoot Hickory Ridge Rd, Lake Co (Timothy Jones, MAG, photo).

Yellow-throated Vireo: 27 Mar (2) Shelby Co (RH), ers. **Philadelphia Vireo**: 19 Apr (1) Shelby Forest (DDP, m.ob.), ers. **Fish Crow**: 7 Mar (16) Pickwick Dam (RS, AT). **CAVE SWALLOW**: 5 May (1) Great River Rd, Dyer Co (MAG); 11 May (1) Reelfoot Hickory Ridge Rd, Lake Co (MCT). **Brown-headed Nuthatch**: 13 Apr (1) near Middleton, Hardeman Co (MAG), 1st Co record. **Sedge Wren**: 13 Apr (1) Hardeman Co (MAG). **Marsh Wren**: 31 Mar (1) Ensley (RH), ers. **Blue-gray Gnatcatcher**: 24 Mar (1) Lake Co (MAG), ers. **Swainson's Thrush**: 17 Apr (1) Munford (DDP), ers.

Warblers: **Worm-eating Warbler**: 31 Mar (1) Chickasaw SP, Chester Co (AJT), ers. **Louisiana Waterthrush**: 22 Mar (1) Britton Ford (DDP), ers. **Northern Waterthrush**: 16 Apr (1) Hatchie NWR (MCT), ers. **Golden-winged Warbler**: 30 Apr (1) Munford (DDP); 3 May (1) Shelby Forest (MCT); 4 May (1) Gibson Co (MAG). **Prothonotary Warbler**: 4 Apr (3) Sunk Lake SNA, Lauderdale Co (AJT), ers. **Swainson's Warbler**: 16 Apr (4) Hatchie NWR (MCT), ers. **Tennessee Warbler**: 13 Apr (1) Hardeman Co (MAG), ers. **Orange-crowned Warbler**: 1 May (1) Shelby Forest (DDP), lrs. **Connecticut Warbler**: 19 May (1) Shelby Co (BF). **Mourning Warbler**: 12 May (1) Shelby Co (RH); 12 May (1) Lake Co (MAG); 12 May (1) Henry Co (Robert Wheat). **Kentucky Warbler**: 8 Apr (1) Munford (DDP), ers. **Hooded Warbler**: 31 Mar (1) Chickasaw SP, Chester Co (AJT), ers. **American Redstart**: 10 Apr (1) Gibson Co (MAG), ers. **Cape May Warbler**: 1 May (1) Shelby Forest (DDP). **Cerulean Warbler**: 9 Apr (1) Shelby Forest (AJT), ers. **Yellow-throated Warbler**: 21 Mar (2) Collierville, Shelby Co (BZ), ers. **Wilson's Warbler**: 30 Apr (1) Munford (DDP), ers

Sparrow - Oriole: **Lark Sparrow**: 16 Apr thru season (1-2 at 6 sites) Gibson Co (MAG); 20 Apr (1) Crockett Co (MAG); 9 May (2) Weakley Co (MM, BSc); 13 May (1) Ensley (RH); 15 May (2) Obion Co (MAG); 29 May (1) Haywood Co (Robert Ford). **Grasshopper Sparrow**: 11 Apr (1) Lake Co (MAG), ers. **White-crowned Sparrow**: 18 May (1) Gibson Co (MAG), lrs. **Painted Bunting**: 11 May (1 male) Tennemo Levee Rd, Dyer Co (MAG, photo); 11 / 17 May (1) Ensley (BZ / BF); 22 May (1 male) Britton Ford (DDP), 1st Henry Co record; 29 May (1 male) President's Ialand, Shelby Co (RH). **Dickcissel**: 19 Apr (2) Ensley (MCT), ers. **Bobolink**: 4 May (300+) Mt Orange, Gibson Co (MAG), max. **Western Meadowlark**: 2 Mar / 11 Apr (3 / 1) Lake Co (MAG); thru 7 Apr (1-3 each at 3 sites) Obion Co (MAG); 10 Apr (1) Ensley (DDP). **GREAT-TAILED GRACKLE**: 21 Apr (1 male) Boothspoint, Dyer Co (MAG, photo). **Orchard Oriole**: 9 Apr (1) Hatchie NWR (AJT), ers.

Locations: Britton Ford - Henry Co; Buckelew Slough - Obion Co; Ensley - Shelby Co; Hatchie NWR - Haywood Co; Mud L - Lake Co; Munford - Tipton Co; Pickwick L - Hardin Co; Robinson Bayou Rd - Lake Co; Shelby Forest - Shelby Co; Tumbleweed WMA - Lake Co.

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HIGHLAND RIM AND BASIN REGION - - Temperatures this spring in Middle Tennessee were warmer than normal each month, with March 3.5 degrees above normal, April the most extreme at 6.9° above normal, and May only 1.9 degrees above normal. Precipitation in March and May was slightly below below normal, while April was 3.4 inches above normal.

Highlights for the season include two reports of Black-bellied Whistling-Duck, Cinnamon Teal, White-winged Dove at a feeder where one appeared last spring, Purple Gallinule, Marbled Godwit, Glaucous Gull (very rare in May), Anhinga, and Western Meadowlark. Also notable were good numbers of Black-billed Cuckoos, Black-necked Stilts, Willets, American Bitterns, Mississippi Kites, Alder Flycatchers, Scissor-tailed Flycatchers, and Lark Sparrows.

Waterfowl - Crane: **Black-bellied Whistling-Duck**: 22-29 May (1) Radnor L (FF, m.ob., photo); 24 May (1, flying over) Murfreesboro (CW, photo). **Greater White-fronted Goose**: 21 Mar (1) Franklin Co (DSn); 24 Mar (3) Duck R Unit (RS); 18-24 Apr (1) Coffee Co (SNM, NPM). **Snow Goose**: 3-13 Mar (2-3) Montgomery Co (JH); 25 Mar (1) Perry Co (VS); 3 Apr (1) Duck R Unit (MM). **Ross's Goose**: 11 Mar (1) Montgomery Co (JH); 24 Mar - 3 Apr (1) Duck R Unit (RS, MM); 30 Mar - 17 Apr (1) Wilson Co (CA, m.ob.). **Cinnamon Teal**: 17 Mar (1 male) Lobelville Bottoms (AT). **Canvasback**: 18 Mar (7) Percy Priest L (FF); 28 Mar (1) Coffee Co (Melissa Turrentine, SZ). **Lesser Scaup**: 24 May (1) Lincoln Co (DSn), lrs. **Common Goldeneye**: 5 Apr (2) Percy Priest L (Dan Dwyer, Katie Sellers), lrs. **Common Merganser**: from winter thru 11 Mar (1-2 females) Old Hickory L (m.ob.). **Red-breasted Merganser**: 10 Mar (150+) Percy Priest L (RHC), max; 11 Mar (127) Old Hickory L, Sumner Co portion (MS). **Northern Bobwhite**: 26 May (16) Fort Campbell (DMo), max. **White-winged Dove**: 29 Apr - 2 May (1) Rockvale, Rutherford Co (Kristy Baker, m.ob., photo). **Black-billed Cuckoo**: 3-13 May (1) Radnor L (FF, MS, m.ob.); 5 / 10 May (4 / 8) Perry Co (RS), ID by nocturnal flight call; 10-18 May (1-2) Putnam Co (Mark Taylor); 25 May (1) Fort Campbell (DMo). **Chimney Swift**: 15 Mar (1) Radnor L (Ann Inouye), ers. **Virginia Rail**: 6 / 14 May (1 / 2) Sugar Tree Bottoms (AT). **Sora**: 9 Apr (1) Lobelville Bottoms (AT), ers; 7 May (1) Bell's Bend (MS), lrs. **Purple Gallinule**: 14 / 17 May (1) Sugar Tree Bottoms (AT / RS, VS, MCT, photo). **Common Gallinule**: 14 / 17 May (2 / 1) Sugar Tree Bottoms (AT / RS, VS, MCT). **Sandhill Crane**: 15 Apr (1) Smith Co (CA), lrs.

Shorebirds: **Black-necked Stilt**: 14 Apr (2) Cross Cr NWR (SA, photo); 17 Apr (1) Fowler Rd (Sophie Buck, photo); 18 Apr (4) Duck R Unit (SY); 29 Apr (1) Gallatin, Sumner Co (Ken Oser, MS, PDC). **American Avocet**: 29 May (1) Duck R Unit (SA). **Black-bellied Plover**: 25 May (1) Fowler Rd (DSn); 28 May (1) Duck R Unit (AT). **American Golden-Plover**: 17 Mar (2) Montgomery Co (DB); 24 Mar (6) Duck R Unit (RS); 4 Apr (2) Eagleville sod farm, Rutherford Co (SZ). **Semipalmated Plover**: 17 Apr (5) Wilson Co (SZ). **Upland Sandpiper**: 15-16 Apr (7) Fowler Rd (DSn, m.ob.). **Marbled Godwit**: 23 Apr (2) marsh on Walter S. Davis Blvd, Nashville (FF, photo, m.ob.). **Stilt Sandpiper**: 20 Apr (1) Wilson Co (JN); 6 May (1) Cross Cr NWR (SA); 21 May (7) Duck R Unit (AT). **Dunlin**: 22 Mar / 17 Apr (1) Fowler Rd (DJS / Sophie Buck); 22 Apr (1) Bell's Bend (JAr, m.ob.); 22 Apr (8)

Rutherford Co, in flooded field (CW); 23-24 Apr (1-2) Coffee Co (SNM, NPM); 24 Apr (1) Wilson Co (SZ); 21-28 May (2-3) Duck R Unit (AT, RS). **Baird's Sandpiper**:12 May (2) Lincoln Co (DJS). **White-rumped Sandpiper**: 12 May (2) Lincoln Co (DJS); 16-17 May (1) Wilson Co (SZ, m.ob.); 20-31 May (2-7) Cross Cr NWR (SA, JH); 21-28 May (28-108) Duck R Unit (AT, RS); 22 May (1) Williamson Co (CA); 24 May (7) Sumner Co (MS); 25 May (47) Fowler Rd (DSn). **Pectoral Sandpiper**: 1 Mar (7) Duck R Unit (RS, VS), ers. **Western Sandpiper**: 21 Apr (1) Fowler Rd (DSn); 28 May (3) Duck R Unit (AT). **Short-billed Dowitcher**: 17-22 Apr (5-11) Fowler Rd (Sophie Buck, DSn); 19 Apr (4) Cross Cr NWR (SY); 12 May (1) Old Hickory L (CA). **Long-billed Dowitcher**: 2 Mar (1) Bark Camp Barrens sod farm, Coffee Co (SNM); 23 Apr (7) Bell's Bend (MS, photo, m.ob.); 23-24 Apr (2-10) Wilson Co (CA, SZ, Greg Tomerlin); 23 Apr (1) Harpo Rd, Coffee Co (SNM, NPM); 30 Apr (5) Duck R Unit (CW). **Solitary Sandpiper**: 24 Mar (1) Wilson Co (CA), ers. **Willet**: 18 Apr (1) Harpo Rd, Coffee Co (SNM); 24 / 30 Apr (17 / 15) Duck R Unit (refuge staff / CW); 27 Apr (40) Old Hickory L (CA, MS, PDC); 27 Apr (2) Clarksville (JH); 1 May (6) Radnor L (PDC, FF, MS, m.ob.); 1 May (11) Fowler Rd (DSn); 4-12 May (2-14) Old Hickory L (JAr, RS, VS, m.ob.); 21 May (1) Duck R Unit (AT). **Lesser Yellowlegs**: 6 Mar (1) Duck R Unit (AT), ers.

Gull - Falcon: **Glaucous Gull**: 5-9 May (1 im) Old Hickory L (CA, photo, m.ob.). **Least Tern**: 27 May (1) Duck R Unit (RS, AT). **Caspian Tern**: 22 Apr (4) Old Hickory L (FF), ers. **Black Tern**: 1 May (1) Radnor L (PDC, FF, MS, m.ob.); 4 / 9 May (1 / 2) Old Hickory L (MS / RS, VS). **Common Tern**: 9 / 12 May (1 / 2) Old Hickory L (RS, VS / CA, PDC, Graham Gerdeman). **Forster's Tern**: 9 May (112) Old Hickory L (RS, VS), max. **Red-throated Loon**: 10-11 Mar (1) Percy Priest L (RHC / MS, PDC). **Pacific Loon**: 11-18 Mar (1-2) Percy Priest L (MS, PDC, m.ob.). **Anhinga**: 28 May (2, male and female) Duck R Unit (AT). **American White Pelican**: 5 Mar (10) Cheatham Dam, Cheatham Co (Jim Hiett); 13 Mar (110) Percy Priest L (JN); 17 / 23 Mar (22 / 28) Old Hickory L, Wilson Co portion (SZ); 21 May (264) Duck R Unit (AT). **American Bittern**: 27 Mar - 6 Apr (1-3) Lobelville Bottoms (AT et al.); 29 Mar (1) Walker Branch SNA, Hardin Co (AJT); 20 Apr (1) Shelton Ferry WMA, Montgomery Co (SY); 3 May (1) Shelby Bottoms, Davidson Co (PDC); 3 May (1) Cross Cr NWR (JH). **Least Bittern**: 27 Apr - 14 May (1-2) Montgomery Co (JH, m.ob.); 6 May (1) Sugar Tree Bottoms (RS); 28 May (1) Duck R Unit (AT). **Snowy Egret**: 28 Mar (1) Little Elder Island, Woods Reservoir, Franklin Co (Melissa Turrentine, SZ); 17 Apr - 7 May (2) Cross Cr NWR (SY, SA); 11 May (1) Lewis Co (Bill Pulliam); 18 May (1) Warren Co (NPM). **Little Blue Heron**: 30 Mar (1 ad) Franklin Co (DSn, photo), ers; 22 Apr (1 ad) Bell's Bend (JAr, m.ob.). **Cattle Egret**: 6 Apr (3) Duck R Unit (AT), ers. **Yellow-crowned Night-Heron**: 14 Apr (1) Lobelville Bottoms (AT), ers. **Mississippi Kite**: 19 Apr (1) Clarksville (Stefan Woltmann); 27 Apr (1) Montgomery Co (JH); 30 Apr / 10 May (1) Perry Co (RS); 18 May (1) Maury Co (AT); 19 May (1) Williamson Co (AJT); 21 May (1) Dickson Co (Marjorie Dunham); 26 May (1) Fowler Rd (DSn). **Golden Eagle**: 15 Mar (1 ad) Perry Co (RS); 19 Mar (1 im) Duck R Unit (JN); 24 Mar (1 im) Lewis Co (RS); 1 Apr (1) Cannon Co (Mark Taylor, Holly Taylor). **Barn Owl**: 12 / 26 Mar (1) Montgomery Co (JH); 20 Mar (1) Lawrence Co (RS, VS); 7 Apr (1) DeKalb Co (John Foster);15 Apr (1) Davidson Co

(Cameron Thompson). **Short-eared Owl**: 8 Mar (1) Fort Campbell (DMo). **Merlin**: 10 Mar (1) Percy Priest L (RHC); 12 Mar (1) Old Hickory L (CA); 15 / 17 Mar (1) Perry Co (RS / AT); 21 Mar (1) Franklin Co (DSn); 13 Apr (1) Wilson Co (SZ, Greg Tomerlin); 4 May (1) Fowler Rd (DSn). **Peregrine Falcon**: 3 Mar (1) Davidson Co (Antony Dicks); 10 Mar (1) Hayne's Bottom WMA, Montgomery Co (JH); 17 Apr (1) Cross Cr NWR (SY).

Flycatcher - Finch: **Olive-sided Flycatcher**: 29 Apr (1) Bridgestone-Firestone Centennial Wilderness WMA, White Co (EKL); 29 Apr (1) Cheatham WMA, Cheatham Co (JH); 8 May (1) Radnor L (Joel Bruyere); 13 May (1) Cumberland R bottoms, Montgomery Co (JH). **Eastern Wood-Pewee**: 21 Apr (1) Radnor L (MS), ers. **Yellow-bellied Flycatcher**: 14 May (1) Perry Co (AT). **Acadian Flycatcher**: 14 Apr (1) Radnor L (FF), ers. **Alder Flycatcher**: 6 May (1) Perry Co (RS, VS); 6 May (1) Lobelville Bottoms (AT); 12 May (1) Franklin Co (DJS); 14 May (1) Sugar Tree Bottoms (AT); 25 May (1) Fort Campbell (DMo). **Willow Flycatcher**: 4 May (1) Lobelville Bottoms (RS, VS), ers; 29 May (4) Fort Campbell (DMo), max. **Least Flycatcher**: 19 May (1) Rutherford Co (SZ), lrs. **Eastern Kingbird**: 2 Apr (1) Duck R Unit (Doug Kibbe), ers. **Scissor-tailed Flycatcher**: 12 Apr / 28 May (1 / 3) Wartrace, Bedford Co (Melissa Turrentine); 23 Apr (2) Cross Cr NWR (JH); 24-26 Apr (1) Wilson Co (SZ, CA); 30 Apr (1) Murfreesboro (JN); 30 Apr / 6 May (1) Hendersonville, Sumner Co (MS); 30 Apr / 20 May (2 / 4, occupied nest) Lytle Cr Rd, Rutherford Co (MM / CW, NTOS); 22 May (1) Springfield, Robertson Co (Joe deGraauw); 27 May (1) Duck R Unit (RS, AT); 29 May (1) Perry Co (AT). **Loggerhead Shrike**: 18 Mar (2) Macon Co (MM, BSc); 1 Apr (1) Cannon Co (Mark Taylor, Holly Taylor); 14 May (pair, 3 fledged yg) Robertson Co (Steve Routledge, Cyndi Routledge). **Bell's Vireo**: 3-29 May (1-2) Fort Campbell (DMo); 7 May (1) Palmyra Rd, Montgomery Co (RS, VS). **Blue-headed Vireo**: 21 Mar (1) Radnor L (JKS), ers. **Warbling Vireo**: 8 Apr (1) Stewart Co (Steve Routledge, Cyndi Routledge), ers. **Philadelphia Vireo**: 28 Apr (1) Radnor L (JKS), ers. **Fish Crow**: 17 Mar (1) Five Points, Lawrence Co (RS, VS); 28 Mar (1) Woods Reservoir, Franklin Co (Melissa Turentine, SZ); 7 May (1) Fowler Rd (DSn). **Northern Rough-winged Swallow**: 6 Mar (1) marsh on W. S. Davis Blvd, Nashville (FF), ers. **Bank Swallow**: 17 Apr (1) Perry Co (RS), ers. **Cliff Swallow**: 12 Mar (1) Duck R Unit (CW, Nolan Walker), ers. **Red-breasted Nuthatch**: 10 May (1) Radnor L (Graham Gerdeman, NTOS), lrs. **Brown-headed Nuthatch**: 29 Apr (2) Bridgestone-Firestone Centennial Wilderness WMA, White Co (EKL); 29 May (1) Big Bottom Unit of Bridgestone-Firestone Centennial Wilderness WMA, Van Buren Co (EKL). **Sedge Wren**: 15 Mar / 3 May (1) Fort Campbell (DMo). **Blue-gray Gnatcatcher**: 20 Mar (2 / 1) Lawrence Co / Perry Co (RS / VS), ers. **Swainson's Thrush**: 17 Apr (1) Beaman Park, Davidson Co (JAr), ers. **Wood Thrush**: 28 Mar (1) Nashville (CAS), new early arrival date in Tenn. **Gray Catbird**: 25 Mar (1) Bell's Bend (JAr), ers. **Purple Finch**: 29 Apr (1) Warren Co (SNM), lrs.

Warblers: **Louisiana Waterthrush**: 17 Mar (1) Franklin, Williamson Co (Melinda Welton), ers. **Northern Waterthrush**: 21 Apr (1) Perry Co (Adam Beachy), ers. **Blue-winged Warbler**: 8 Apr (1) Perry Co (MM, BSc), ers. **Golden-winged Warbler**: 29 Apr (1) Radnor L (CAS, Melinda Welton); 6 May (1) Perry Co (RS); 12 May (1) Land Between

the Lakes, Stewart Co (Bill Lisowsky). **"Brewster's" Warbler**: 29 May (1) Big Bottom Unit of Bridgestone-Firestone Centennial Wilderness WMA, Van Buren Co (EKL). **Black-and-white Warbler**: 26 Mar (1) Radnor L (Ann Inouye), ers. **Swainson's Warbler**: 1 May (1) Montgomery Co (JH); 10 May (1) Cross Cr NWR (MM, BSc). **Orange-crowned Warbler**: 16 Apr (1) Smith Co (CA), lrs. **Nashville Warbler**: 14 Apr (1) Nashville (CAS), ers. **Connecticut Warbler**: 6 May (1) Sugar Tree Bottoms (RS); 7 / 15 May (1) Shelby Bottoms, Davidson Co (MS / PDC, CA); 7 May (1) Crooked Branch Park, Davidson Co (PDC); 7 May (1) Perry Co (Seth Beachy); 13 / 17 May (1) Radnor L (PDC, FF, MS, CAS / JKS). **Mourning Warbler**: 1-2 / 11-13 May (1-2) Radnor L (PDC, FF, MS, JKS, m.ob.); 5 May (1) Old Hickory Dam (CA, FF); 10 May (1) Perry Co (RS, VS); 10 May (1) Stewart Co (MCT); 12 May (1) Franklin Co (DJS); 13 May (1) Montgomery Co (Stefan Woltmann). **Kentucky Warbler**: 11 Apr (1) Wilson Co (SZ), ers. **Common Yellowthroat**: 27 Mar (1) Perry Co (AT), ers. **Cape May Warbler**: 22 Apr (2) Radnor L (JKS), ers. **Cerulean Warbler**: 4 Apr (1) Montgomery Co (JH), ers. **Northern Parula**: 20 Mar (1) Davidson Co (Adam Beachy), new early arrival date in Middle Tenn. **Bay-breasted Warbler**: 4 / 6 May (48 / 40) Radnor L (RS, VS / CAS). **Blackburnian Warbler**: 9 Apr (1) Cross Cr WMA (JH), ers. **Yellow Warbler**: 11 Apr (1) Putnam Co (Mark Taylor), ers. **Chestnut-sided Warbler**: 18 Apr (1) Liberty Park, Montgomery Co (JH), ers. **Blackpoll Warbler**: 19 Apr (1) Maury Co (CA), ers; 4 / 6 May (57 / 50) Radnor L (RS, VS / CAS), max. **Black-throated Blue Warbler**: 3 May (1 male) Radnor L (FF, MS). **Prairie Warbler**: 5 Apr (5) Wilson Co (SZ), ers. **Black-throated Green Warbler**: 24 Mar (1) Perry Co (AT), ers. **Canada Warbler**: 13 May (8) Radnor L (CAS), max. **Wilson's Warbler**: 1-25 May (1-3) Radnor L (PDC, MS, CAS, FF); 16 May (2) Fort Campbell (DMo); 17 May (1) Coffee Co (DJS). **Yellow-breasted Chat**: wintering bird in Nashville remained thru 8 Apr (Katie Sellers); 14 Apr (1) Perry Co (AT), ers.

Sparrow - Oriole: **Bachman's Sparrow**: 18 May (1) Fort Campbell (DMo). **Lark Sparrow**: 16 Apr / 20 May (1) Lytle Cr Rd, Rutherford Co (SZ / CW, NTOS); 21 Apr (2) Wilson Co (SZ); 21 Apr (1) Rutherford Co (SZ); 24 Apr (1) Hillsboro pond, Coffee Co (SNM, NPM); 12 May (1) Fowler Rd (DSn); 19 May (1) Elora, Franklin Co (DJS); 20 May (2) Nashville Speedway, Wilson Co (CW, NTOS). **Grasshopper Sparrow**: 13 Apr (1) Wilson Co (SZ), ers. **Henslow's Sparrow**: 30 Mar / 29 May (2 / 19) Fort Campbell (DMo), ers / max; 27 May (4) Bridgestone-Firestone Centennial Wilderness WMA, White Co (EKL). **Lincoln's Sparrow**: 9 Apr (1) Perry Co (AT), ers; 10-16 Apr (1-2) Montgomery Co (SA, photo). **Blue Grosbeak**: 17 Apr (1) Perry Co (RS), ers. **Indigo Bunting**: 30 Mar (1 male) Palmyra, Montgomery Co (SY), ers. **Dickcissel**: 22 Apr (1) Wilson Co (CA), ers; 29 May (24) Fort Campbell (DMo), max. **Bobolink**: 31 May (1) Cross Cr NWR (SA), lrs. **Western Meadowlark**: 4-17 Mar (2-3) Duck R Unit (JN, m.ob., photos). **Yellow-headed Blackbird**: 10 May (1) Duck R Unit (fide MAG). **Brewer's Blackbird**: 23 Mar (1 female) Hillsboro Pond, Coffee Co (BD). **Baltimore Oriole**: 16 Apr (1) Sumner Co (MS), ers.

Locations: Bell's Bend - Davidson Co; Cross Cr NWR - Stewart Co; Duck R Unit - Humphreys Co; Fort Campbell - Montgomery Co; Fowler Rd - irrigation pond in Lincoln Co; Lobelville Bottoms - Perry Co; Old Hickory L - Davidson Co (unless specified

otherwise); Percy Priest L - Davidson Co; Radnor L - Davidson Co; Sugar Tree Bottoms - Perry Co.

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CUMBERLAND PLATEAU / RIDGE and VALLEY REGION - - Mild and wet conditions prevailed this spring with both temperatures and rainfall above average for each month. In the Tri-cities area the total of 17 inches of rain for the season as a whole made for one of the wettest springs on record. The heaviest rains (8 inches) came in May, more than doubling the normal amount.

Most regional birders considered migration to be spotty and weak this spring, particularly among songbirds. For instance, the purely transient warblers, those that breed well north of Tennessee, seemed to be especially scarce. However, there were some remarkable sightings, such as Limpkin, Black-bellied Whistling-Duck, two Swallow-tailed Kites, Black-necked Stilt, and Harris's Sparrow. Also notable were good numbers of Willets and Black-billed Cuckoos, along with five American Bitterns, two Mississippi Kites, a Common Gallinule and a Wilson's Phalarope. Several new early arrival dates were established.

Waterfowl - Crane: **BLACK-BELLIED WHISTLING-DUCK**: 19 May (1) John Sevier L (SHu, photo), 2nd record at this site and in East Tenn. **Greater White-fronted Goose**: 22 Mar (1) John Sevier L (SHu), lrs. **Snow Goose**: 31 Mar - 16 Apr (1) Roane Co (EKL, m.ob.). **American Wigeon**: 6 May (3) Cove Lake SP (CJW), lrs. **Common Merganser**: 7 Mar (2, male and female) Nolichucky R, Washington Co (RLK); 8 Mar (1 male) Beaver Cr, Sullivan Co (RLK), lrs at this site. **Ruddy Duck**: 9-13 May (1) Washington Co (RLK), lrs. **Yellow-billed Cuckoo**: 17 Apr (1) Sharp's Ridge (Stephany McNew, EBo), ers. **Black-billed Cuckoo**: 17 Apr (2) Phipp's Bend (Gary Bailey); 19 Apr (1) Heritage Center Greenway, Roane Co (Michael Ryon); 24 Apr (1) Austin Springs, Washington Co (RLK); 26 Apr (1) Blount Co (Marcia Davis); 26 Apr / 3 May (1) Cumberland Co (EKL); 27-29 Apr (1) Grainger Co (DB); 29 Apr (1) Seven Islands SP (Melinda Fawver, photo); 2 May (1) Kingsport (RLK et al.); 7 May (1) Blount Co (WB); 8 May (1) Sharp's Ridge (Michael Winck, photo); 13 May (1) Springfield Branch, Blount Co (Tom Howe); 14 May (1) Knox Co (KDE). **Eastern Whip-poor-will**: 4 Apr (1) Craven's House (KAC), ers. **Chuck-will's-widow**: 11 Apr (2 / 1) Blount Co / Polk Co (EvB / RHo), ers. **Chimney Swift**: 27 Mar (2) Maryville, Blount Co (WB), ers. **Ruby-throated Hummingbird**: 27 Mar (1) Hamilton Co (Carol Fegarido), ers. **Virginia Rail**: 11-25 Apr (1-2) Meadowview golf course, Kingsport (RRK, m.ob.); 16 Apr (1) John Sevier L (SHu); 21 Apr (2) Springfield Branch, Blount Co (Tom Howe). **Sora**: 21 Mar (1) Meadowview golf course, Kingsport (RLK), ers. **Common Gallinule**: 26 Apr - 25 May (1) John Sevier L (SHu, photo). **LIMPKIN**: 24 May (1) Tenn R Gorge, Marion Co (Dwight Cooley, PGR, Rick Huffines, Josh Range), 3rd state record, first record in East Tenn. **Sandhill Crane**: 4 Apr (1) Roane Co (RDH, DMy); 7 Apr (4) Kyker Bottoms (RW); 14 Apr (1) Polk Co (RHo); 29 Apr (1) Washington Co (Don Miller); all late.

Stilt - Tern: **Black-necked Stilt**: 24 May (1) Eagle Bend fish hatchery, Anderson Co (site manager Mike Smith / RDH, DMy, photo). **Black-bellied Plover**: 27 Apr (1) Bible Refuge (DK). **American Golden-Plover**: 18 Mar (1) Grundy Co (BD); 14 Apr (1) Brainerd Levee (BD). **Upland Sandpiper**: 6 May (1) Hamilton Co (KAC). **Stilt Sandpiper**: 6 May (1) Hamilton Co (KAC); 6 May (1) Washington Co (RLK). **Dunlin**: 27 Apr (1) South Mouse Cr, Bradley Co (RHo); 27 Apr (1) Bible Refuge (DK). **White-rumped Sandpiper**: 27 Apr (3) Bible Refuge (DK); 29 Apr (1) UT Plant Science Farm, Knox Co (MM, BSc, Jimmy Tucker); 12 May (2) Tenn R Park, Hamilton Co (BD); 14 / 24 May (1 / 4) Eagle Bend fish hatchery, Anderson Co (MM et al. / RDH, DMy). **Semipalmated Sandpiper**: 27 Apr (1) Bible Refuge (DK), ers; 22 May (50) Leesburg, Washington Co (Jim Anderson), new high count in NE Tenn. **Short-billed Dowitcher**: 13 May (10) Kyker Bottoms (RW, photo); 13 / 15 May (1 / 22) Leesburg, Washington Co (RLK / RRK, m.ob.). **Spotted Sandpiper**: 3 Apr (1) Cherokee Farm, Knox Co (Cody Allen), ers. **Willet**: 17 Apr (6) Rankin Bottoms, Cocke Co (Kirk Gardner); 22 Apr (3) Cherokee Dam, Jefferson Co (BSc, MM); 27 Apr (11) Chickamauga Dam, Hamilton Co (Dan Jacobson, m.ob.); 28 Apr (2) Nickajack L, Marion Co (TLR); 12 May (1) John Sevier L (SHu); 13 May (9) Melton Hill Park, Knox Co (Colin Sumrall). **Lesser Yellowlegs**: 27 Apr (140) Bible Refuge (DK), max. **Wilson's Phalarope**: 20-21 May (1) Lowland, Hamblen Co (BSc, m.ob.). **Caspian Tern**: 21 Apr (5) Tenn R, Knox Co (MM), ers; 21 May (1) Cove Lake SP (Jacob Wessels), lrs. **Black Tern**: 1 May (2) John Sevier L (SHu); 2 May (1) Douglas Dam, Sevier Co (David Palmer). **Forster's Tern**: 10 Apr (3) Dale Hollow L, Clay Co (RLK), ers.

Loon - Falcon: **Common Loon**: 26 May (1) Watts Bar L, Rhea Co portion (RSh, DSh), lrs. **Double-crested Cormorant**: 2 May (10 nests with yg) Kingsport (RLK). **American White Pelican**: 9 Mar (48) Fort Loudoun L, Knox Co (MM, Jay Sturner); 10 Apr (15) Watts Bar L, Roane Co (Wes James). **American Bittern**: 11-21 Apr (1) Standifer Gap Marsh (BD); 14 Apr (1) Ocoee, Polk Co (RHo); 19 Apr (1) Freel's Bend, Anderson Co (DB et al.); 20 Apr (1) White's Mill Refuge, Blount Co (Jacob Wessels); 23 Apr (1) Meadowview golf course, Kingsport (Bambi Fincher, Sherrie Quillen). **Least Bittern**: 28 Apr / 13-18 May (1-2, calling) Kyker Bottoms (RW, WB). **Snowy Egret**: 22 Apr (1) Amnicola Marsh, Hamilton Co (BD); 29 Apr (2) Lyon's Island, Knox Co (CJW). **Green Heron**: 27 Mar (1) Hamilton Co (Hugh Barger), ers. **Cattle Egret**: 31 Mar (1) Melton Hill L, Anderson Co (Melinda Fawver, photo), ers; 6 Apr (1) John Sevier L (SHu); 24 Apr (2) Brainerd Levee (BD). **Yellow-crowned Night-Heron**: 27 Mar thru season (8-9 nesting pairs at 3 sites) Kingsport (RLK, Bill Grigsby, m.ob.); 6 Apr (1) Brainerd, Hamilton Co (BD, Tim Jeffers); 15-17 Apr (1) White's Mill Refuge, Blount Co (RW); 16 Apr (2) Standifer Gap Marsh (Stephany McNew). **Mississippi Kite**: 16 Apr (1) Washington Co (Don Holt); 18 May (1) Knox Co (KDE), 3rd in last 4 years from this yard. **Swallow-tailed Kite**: 20 Apr (1) Winged Deer Park, Washington Co (FJA, KBr, photo); 29 Apr (1) Seven Islands SP (Melinda Fawver, Doug Bruce, photo). **Northern Harrier**: 6 May (1) Bledsoe Co (RSh, DSh), lrs. **Broad-winged Hawk**: 17 Mar (1) Campbell Co (NeM), ers. **Merlin**: 8 Mar (1) Standifer Gap Marsh (BD); 13 Mar (1) Brainerd Levee (KAC); 21 Mar (1) Knox Co (KDE); 22 Mar (1) Seven Islands SP (MM et al.); 4 Apr (1) Kyker Bottoms (EvB); 6 Apr (1) Austin Springs, Washington Co (FJA, KBr); 9 May (1)

Sharp's Ridge (EBo). **Peregrine Falcon**: 22 May (1 im) Paddle Cr, Sullivan Co (RLK).

Flycatcher - Raven: **Willow Flycatcher**: 3 May (1) Cherokee Farm, Knox Co (EvB), ers. **Great Crested Flycatcher**: 14 Apr (1) Greenway Farm, Hamilton Co (David Aborn), ers. **Eastern Kingbird**: 5 Apr (1) Delano, Polk Co (RHo), ers. **Scissor-tailed Flycatcher**: 25 Apr / 30 May (pair / 6 at 4 sites, with 2 occupied nests) near Pikeville, Bledsoe Co (RSh, DSh / EKL, PB), ers / max at this traditional nest site; 11 May (1) Holston Army Ammunition Plant, Hawkins Co (Bruce Cole). **Loggerhead Shrike**: thru season (1-2 at 2 sites) Washington Co (RLK, RRK, m.ob.); 22 Mar (1) New Market, Jefferson Co (KDE); 30 May (pair) Bledsoe Co (EKL, PB). **White-eyed Vireo**: 31 Mar (1) Hamilton Co (BD), ers. **Blue-headed Vireo**: 9 Mar (1) Signal Mtn (Pixie Lanham, Gary Lanham), ers. **Warbling Vireo**: 13 Apr (1) Cove Lake SP (NeM), ers. **Philadelphia Vireo**: 6 May (1) Sharp's Ridge (EvB, Jacob Wessels, photo), rare in East Tenn in spring. **Red-eyed Vireo**: 5 Apr (2) Marion Co (TLR), ers. **Fish Crow**: early Mar thru season (pair, nest building) V.A. campus in Johnson City (Mary Anna Wheat, m.ob.); 20 Mar (1) Kingsport, along South Holston R (Debi Campbell); 25 Apr (pair at nest) Tenn R, Knox Co (CJW); 11 May (1) Bristol (Ron Carrico), 1st record there. **Common Raven**: 28 Mar / 26 May (1) Johnson City (Jerry Nagel / RLK); 15 Apr (1) Phipps Bend (SHu); 20 Apr (1) Seymour, Sevier Co (Mark Armstrong); 21 Apr (1) Cross Mtn, Campbell Co (DB); 22 Apr (1) Eidson, Hawkins Co (SHu); 28 Apr (1 ad, 3 yg in nest) under grandstands at Bristol Motor Speedway (Michele Sparks), have nested here 4 of last 5 years; 6 May (1) Bowmantown, Washington Co (RLK); 29 May (1) Kyle's Ford, Hancock Co (SHu).

Swallow - Siskin: **Northern Rough-winged Swallow**: 4 Mar (1) Fort Henry Dam, Sullivan Co (PGR), new early arrival date in NE Tenn. **Purple Martin**: 6 Mar (2) Kyker Bottoms (RW), ers. **Cliff Swallow**: 10 Mar (2) Brainerd Levee (BD, Hugh Barger), ties early arrival date in East Tenn. **Barn Swallow**: 5 Mar (1) Amnicola Marsh, Hamilton Co (BD), ers. **Red-breasted Nuthatch**: 11 May (1) Lookout Mtn (BD), lrs. **Brown-headed Nuthatch**: 27 Mar (2) Bledsoe Co (RDH, DMy); 13 Apr (1) Cumberland Co (EKL). **Marsh Wren**: 16 Apr (1) John Sevier L (SHu); 1 May (3) Kyker Bottoms (CA); 8 May (3) Farragut, Knox Co (Colin Sumrall). **Sedge Wren**: 29 Apr (1) UT Plant Science Farm, Knox Co (MM, BSc, Jimmy Tucker); 2 May (1) UT campus, Knox Co (CJW). **Blue-gray Gnatcatcher**: 5 Mar (1) John Sevier L (SHu, photo), new early arrival date in state. **Eastern Bluebird**: 18 Mar / 6 Apr (full clutch of 4 eggs hatched / fledged) Signal Mtn (Jonnie Sue Lyons), early. **Wood Thrush**: 4 Apr (1) Norris Dam, Anderson Co (Jacob Wessels, photo), ers. **Gray Catbird**: 13 Mar (1) Kingsport (Gary Bailey), ers. **Pine Siskin**: 12 Apr (2) Signal Mtn (Pixie Lanham, Gary Lanham).

Warblers: **Worm-eating Warbler**: 5 Apr (1) Marion Co (TLR), ers. **Louisiana Waterthrush**: 20 Mar (1 / 2) Rhea Co / Campbell Co (EKL / NeM), ers. **Black-and-white Warbler**: 27 Mar (3) Jacksboro, Campbell Co (NeM), ers. **Prothonotary Warbler**: 11 Apr (1) Roane Co (EBo), ers; 16 Apr / 30 May (2) John Sevier L (SHu); 20 Apr / 30 May (2) Phipps Bend (Gary Bailey); 28 Apr (1) Kingsport (Neal Henson, Jean Henson); 29 May (1)

Kyle's Ford, Hancock Co (SHu). **Orange-crowned Warbler**: 7 May (1) Signal Mtn (KAC), lrs. **Nashville Warbler**: 14 Apr (1) Sewanee, Franklin Co (David B. Coe), ers. **Connecticut Warbler**: 10-11 May (1) Loudon Co (Tom Howe / MM). **Mourning Warbler**: 14 May (1) Cove Lake SP (EBo). **Common Yellowthroat**: 27 Mar (1) Standifer Gap Marsh (KAC), ers. **American Redstart**: 11 Apr (1) Reflection Riding, Hamilton Co (Pixie Lanham, Gary Lanham), ers. **Cape May Warbler**: 16 Apr (1) Knox Co (Colin Sumrall), ers. **Cerulean Warbler**: 5 Apr (1) Jacksboro, Campbell Co (NeM), ers. **Bay-breasted Warbler**: 17 Apr (1) Sharp's Ridge (Stephany McNew, EBo), new early arrival date in East Tenn. **Blackburnian Warbler**: 9 Apr (1) Lookout Mtn (BD), ers. **Yellow Warbler**: 14 Apr (1) Hamilton Co (KAC), ers. **Chestnut-sided Warbler**: 20 Apr (1) Lookout Mtn (BD), ers; 29 May (1) Knox Co (KDE), late migrant. **Blackpoll Warbler**: 19 Apr (1 each) Lookout Mtn / Sharp's Ridge (BD / MM), ers. **Yellow-throated Warbler**: 27 Mar (1) Oak Ridge, Anderson Co (Chuck Estes), ers. **Prairie Warbler**: 30 Mar (1) Lookout Mtn (BD), ers. **Black-throated Green Warbler**: 24 Mar (1) Hamilton Co (BD), ers. **Canada Warbler**: 24 Apr (1) Craven's House (KAC), ers. **Wilson's Warbler**: 14 May (1) Craven's House (KAC); 19 May (1) Lookout Mtn (BD). **Yellow-breasted Chat**: 14 Apr (1) Hamilton Co (TLR), ers.

Sparrow - Oriole: **Harris's Sparrow**: 21 Mar - 20 Apr (1, at feeder) near Dunlap, Bledsoe Co (RSh, DSh, photo, m.ob.). **Summer Tanager**: 9 Apr (1) Lookout Mtn (BD), ers. **Scarlet Tanager**: 5 Apr (1) Marion Co (TLR), ers. **Rose-breasted Grosbeak**: 13 Apr (1) Kingsport (Bill Grigsby), new early arrival date in NE Tenn; 14 Apr (2) Bristol (Ron Carrico), ties previous early record in NE Tenn. **Dickcissel**: 20 / 27 Apr (1 each at 2 sites) Bradley Co (RHo); 5 / 30 May (2-4 at 2-3 sites) Bledsoe Co (RSh, DSh / EKL, PB); 8 May (4) Whitwell, Marion Co (AT); 9 May thru season (1-2 at 4 sites) Washington Co (RLK, Jim Anderson, m.ob.); 28 May (2) Loudon Co (Toby Koosman); 29 May (1) Kyle's Ford WMA, Hancock Co (SHu); 30 May (pair) Cumberland Co (EKL, PB); 31 May (1) Seven Islands SP (Mark Armstrong). **Bobolink**: 24 Apr (6) Brainerd Levee (KAC), ers. **Orchard Oriole**: 11 Apr (1) Standifer Gap Marsh (BD), ers.

Locations: Bible Refuge - Greene Co; Brainerd Levee - Hamilton Co; Bristol - Sullivan Co; Cove Lake SP - Campbell Co; Craven's House - unit of Chickamauga and Chattanooga National Military Park, Hamilton Co; John Sevier L - Hawkins Co; Kingsport - Sullivan Co; Kyker Bottoms - Blount Co; Lookout Mtn - Hamilton Co; Phipp's Bend - Hawkins Co; Seven Islands SP - Knox Co; Sharp's Ridge - Knox Co; Signal Mtn - Hamilton Co; Standifer Gap Marsh - Hamilton Co.

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EASTERN MOUNTAIN REGION - - Temperatures were above average in each month, with April the most extreme at 6 degrees above normal. Rainfall was 7 inches above average for the period. A late snowfall on 6 May brought 6 inches to Mt. LeConte and a half inch

accumulation on Roan Mountain.

There were more than the usual number of observations reported from the Great Smoky Mountains National Park. A pair of Common Mergansers was seen near the east boundary of the park. No breeding evidence was reported for the spring period; however, breeding evidence will be reported in the upcoming summer report. Other good park records included a Mississippi Kite flying over the Tremont Institute campus, a Merlin over the Mount LeConte lodge, and two Brown-headed Nuthatches in Cades Cove.

Waterfowl - Shorebirds: **Greater Scaup**: 11 Mar (1) South Holston L (Rack Cross). **Common Merganser**: from Feb - 17 Mar (pair, with 1 female thru 28 Apr) Middle Prong, Little Pigeon R, Sevier Co (KW); 21 May (1 female) Metcalf Bottoms, Sevier Co (Lizzie Diener). **Eared Grebe**: thru 25 Mar (1-2) South Holston L (RLK, m.ob.). **Black-billed Cuckoo**: 2-6 / 27 May (1) Hampton Cr Cove (RRK, Jim Anderson, Debi Campbell, m.ob. / Debbie Shetterly); 13 May (1) Elizabethton (DK). **Eastern Whip-poor-will**: 20 Mar (1) Watauga Dam, Carter Co (BP), new early arrival date in NE Tenn. **Virginia Rail**: 6 May (4) Quarry Bog in Shady Valley (RRK, PGR, Glen Eller, Richard Lewis, Harry Lee Farthing, Jerry Bevins). **Semipalmated Plover**: 1 May (1) South Holston L (RLK). **American Woodcock**: 26 Apr (1) Carver's Gap on Roan Mtn (RLK); 30 May (1) Sugarlands, GSMNP (Lizzie Diener). **Solitary Sandpiper**: 15 Apr (2) Watauga R, Carter Co (RLK), ers. **Willet**: 28 Apr (6) Chilhowee L, Blount Co (RW).

Gulls - Falcon: **Bonaparte's Gull**: 25 Mar (150) South Holston L (RLK), max. **Herring Gull**: 24 Apr (1) South Holston L (RLK), lrs. **Caspian Tern**: 22 Apr / 1 May (1) South Holston L (RLK). **Forster's Tern**: 23 Apr - 12 May (1-3) South Holston L (BP, JP, m.ob.). **Common Loon**: 3 Apr (45) L Ocoee, Polk Co (RHo), max. **Great Egret**: 1 Apr (1) Erwin, Unicoi Co (RBB), few Co records. **Cattle Egret**: 5-11 Apr (1) Pittman Center, Sevier Co (KW, m.ob.). **Yellow-crowned Night-Heron**: 29 Apr thru season (pair at nest) Elizabethton (Kathy Noblet, m.ob.). **Osprey**: 12 Apr (1) Indian Gap, GSMNP (Sarah Bonnett). **Mississippi Kite**: 13 May (1) Tremont, GSMNP (Tiffany Beachy). **Northern Saw-whet Owl**: 12 / 19 Apr (1-2) Roan Mtn (RLK / PGR, Glen Eller, Steve Calver). **Yellow-bellied Sapsucker**: 28-30 Apr (pair, female excavating a nest cavity) Roan Mtn SP (Larry McDaniel). **Merlin**: 1 May (1) Mt LeConte, GSMNP (Travis Marceron). **Peregrine Falcon**: 24 Mar / 20 Apr (pair) Doe R Gorge, Carter Co (PGR, RLK), male made food deliveries to female at nest ledge, but birds not seen on follow-up visits in May and Jun, following successful nesting last year; 13 Apr / 8 May (2) Alum Cave Bluff, GSMNP (KW); 2 May (2) Newfound Gap, GSMNP (Billie Knight).

Flycatcher - Siskin: **Olive-sided Flycatcher**: 6 May (1) Cades Cove, GSMNP (WB). **Acadian Flycatcher**: 15 Apr (1) Sugarlands, GSMNP (Jay Sturner), ers. **Alder Flycatcher**: 13 May (1) Hampton Cr Cove (RBB), ers. **Willow Flycatcher**: 6 May (1) South Holston L (RBB, Ron Carrico), ers; 28 May (10) Shady Valley (RLK), max. **Loggerhead Shrike**: 7-17 Mar (1) Pittman Center, Sevier Co (KW). **Common Raven**: 24 Apr (1) L Ocoee, Polk Co (RHo). **Bank Swallow**: 23 May (2) Cades Cove, GSMNP (WB). **Cliff Swallow**: 24 Mar (2)

Watauga R, Carter Co (BP, JP), ers. **Brown-headed Nuthatch**: 13 May (2) Cades Cove, GSMNP (Susan Hoyle). **Marsh Wren**: 6 May (1) Ripshin L, Carter Co (FJA, KBr); 16 May (1) Orchard Bog in Shady Valley (Larry McDaniel). **Blue-gray Gnatcatcher**: 28 Mar (1) Wilbur L, Carter Co (BP, JP), ers. **American Pipit**: 8 Mar (40) Holston Valley, Sullivan Co (RLK), max. **Purple Finch**: 27 Apr (3) Cades Cove, GSMNP (Taylor Paez), lrs. **Pine Siskin**: 4 Apr (1, at feeder) Wilbur L, Carter Co (BP, JP); 26 Apr thru season (2-3) Roan Mtn, at 4450 ft (RLK); 15 May (3) Clingman's Dome, GSMNP (WB).

Warblers - Blackbird: **Golden-winged Warbler**: 26 Apr / 13 May (2 / 11) Hampton Cr Cove (RLK / RBB), ers / max. **Swainson's Warbler**: 14 Apr (1) Schoolhouse Gap trail, GSMNP (Tom Howe), ers. **American Redstart**: 12 Apr (1) Foothills Parkway, Blount Co (RW), ers. **Black-throated Blue Warbler**: 13 Apr (2) Alum Cave Bluff, GSMNP (KW), ers. **Yellow-rumped Warbler**: 15 May (1) Clingman's Dome, GSMNP (WB). **Prairie Warbler**: 29 Mar (1) L. Ocoee, Polk Co (RHo), ers. **Black-throated Green Warbler**: 30 Mar (1) Rock Cr Park, Unicoi Co (FJA, KBr), ers. **Wilson's Warbler**: 10 May (1) Elizabethton (Tom McNeil, DK). **Rusty Blackbird**: 23 Mar (18) Erwin, Unicoi Co (Bryan Stevens).

Locations: Elizabethton - Carter Co; GSMNP - Great Smoky Mtns National Park; Hampton Cr Cove - Carter Co; Roan Mtn - Carter Co; Shady Valley - Johnson Co; South Holston L - Sullivan Co.

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The Migrant records observations and studies of birds in Tennessee and adjacent areas.

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